



State of Utah

Department of
Environmental Quality

Richard W. Sprott
Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

JON M. HUNTSMAN, JR.
Governor

GARY HERBERT
Lieutenant Governor

DAQE-IN0101220048-08

March 27, 2008

Joel Elstein
Big West Oil, LLC (Flying J Refinery)
333 West Center
North Salt Lake, Utah 84054

Dear Mr. Elstein:

Re: Intent to Approve: Addition of a New Wastewater Equalization Tank, Davis County – CDS A;
NA; MAINT; NSPS; HAPs; TITLE V MAJOR
Project Code: N010122-0048

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any questions you may have on this project to Mr. John Jenks. He may be reached at (801) 536-4459.

Sincerely,

Ty Howard, Manager
New Source Review Section

TH:JJ:kw

cc: Davis County Health Department

Mike Owens, EPA Region VIII

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**INTENT TO APPROVE: Addition of a
New Wastewater Equalization Tank**

**Prepared By: John Jenks, Engineer
(801) 536-4459
Email: jjenks@utah.gov**

INTENT TO APPROVE NUMBER

DAQE-IN0101220048-08

Date: March 27, 2008

**Big West Oil, LLC
(Flying J Refinery)**

**Source Contact
Stuart Smith
(801) 296-7828**

**M. Cheryl Heying
Executive Secretary
Utah Air Quality Board**

Abstract

Big West Oil, LLC (Flying J Refinery) has submitted a Notice of Intent to install a new wastewater equalization tank at their refinery. The new tank is part of a general upgrade of the refinery pretreatment systems. The refinery is located in Davis County, which is a Maintenance area for O₃. In addition, the Flying J refinery is listed in the PM₁₀ SIP as a contributing source for Salt Lake County. New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP) and Maximum Achievable Control Technology (MACT) regulations do not apply to this tank. Title V of the 1990 Clean Air Act applies to this source. The new tank will be equipped with an internal floating roof and have a potential to emit of 1.2 tons per year of VOC and 0.1 tons per year of miscellaneous HAPs based on its maximum expected throughput of wastewater and separator oil.

The Notice of Intent (NOI) for the above-referenced project has been evaluated and has been found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307). Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an Approval Order (AO) by the Executive Secretary of the Utah Air Quality Board.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notice of intent to approve will be published in the Davis County Clipper on April 1, 2008. During the public comment period the proposal and the evaluation of its impact on air quality will be available for both you and the public to review and comment. If anyone so requests a public hearing it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated.

Please review the proposed AO conditions during this period and make any comments you may have. The proposed conditions of the AO may be changed as a result of the comments received. Unless changed, the AO will be based upon the following conditions:

General Conditions:

1. This AO applies to the following company:

Big West Oil LLC, a subsidiary of Flying J, Inc.
333 West Center Street
North Salt Lake, Utah 84054
Phone: (801) 296-7700
FAX: (801) 296-7800

The equipment listed in this AO shall be operated at the following location:

Flying J Refinery
333 West Center Street
North Salt Lake, Utah 84054

Universal Transverse Mercator (UTM) Coordinate System: UTM Datum NAD27
4,535.4 km Northing; 431.5 km Easting; Zone 12

2. All definitions, terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code (UAC) Rule 307 (R307) and Title 40 of the Code of Federal Regulations (40 CFR). Unless noted otherwise, references cited in these AO conditions refer to those rules.
3. The limits set forth in this AO shall not be exceeded without prior approval in accordance with R307-401.
4. Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved in accordance with R307-401-1.
5. All records referenced in this AO or in applicable NSPS, which are required to be kept by the owner/operator, shall be made available to the Executive Secretary or Executive Secretary's representative upon request, and the records shall include the two-year period prior to the date of the request. Records shall be kept for a minimum of five (5) years.
6. Flying J, Inc./Big West Oil shall operate and maintain these tanks in accordance with the requirements of this AO, which was written pursuant to Flying J/Big West Oil's Notice of Intent, submitted to the Division of Air Quality on December 6, 2007.
7. This AO shall replace the Approval Order DAQE-AN0101220047A-08 dated January 25, 2008.
8. The approved installations shall consist of the following equipment:
 - A. Tank 3 – Crude Oil Storage
 - B. Wastewater Storage Tank 7
 - C. Wastewater Equalization Tank 9
 - D. Petroleum Liquid Storage Tank 19
 - E. Petroleum Liquid Storage Tank 29
 - F. Petroleum Liquid Storage Tank 45
 - G. Petroleum Liquid Storage Tank 56
 - H. Tank 87 – Ethanol Tank

Limitations and Test Procedures

9. The following true vapor pressures (TVP) shall not be exceeded:
 - A. 11.1 psia for Tank 3
 - B. 20.7 kPa (3 psia) for Tank 7

- C. 3.0 psia for Tank 9
- D. 4.8 kPa (0.7 psia) for Tank 19
- E. 0.2 psia for Tank 29
- F. 10.0 psia for Tank 45
- G. 11.1 psia for Tank 56
- H. 2.0 psia for Tank 87

Compliance with the TVP shall be determined by maintaining monthly records of the type and maximum TVP of material stored in each tank for all periods when the plant is in operation.

Federal Limitations and Requirements

10. In addition to the requirements of this AO, all provisions of 40 CFR 60, New Source Performance Standards (NSPS) Subparts A and Kb, 40 CFR 60.1 to 60.18 and 40 CFR 60.110b to 60.117b (Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which construction, reconstruction, or modification commenced after July 23, 1984) apply to Tanks 3, 7, 19, 29, 45, 56, and the ethanol tank.

All applicable provisions of 40 CFR 63, National Emission Standards for Hazardous Air Pollutants for Source Categories Subpart A (General Provisions) and Subpart CC, 40 CFR 63.640 to 63.679 (National Emission Standard for Hazardous Air Pollutants From Petroleum Refineries) apply to Tank 3.

To be in compliance, this facility must operate in accordance with the most current versions of 40 CFR 60 and 40 CFR 63.

Tanks 7, 9, 45, 56 and 87 shall be equipped with an internal floating roof. Tank 3 shall be equipped with a floating roof and guide pole sleeves. The owner/operator shall comply with the requirements as listed in Section 60.112b(a)(1).

Volatile Organic Compound (VOC) and Hazardous Air Pollutants (HAPs) Limitations

11. The facility shall abide by all applicable requirements of R307-325 through R307-341 for VOC sources located in ozone Maintenance areas. At a minimum, Reasonable Available Control Technology (RACT) control measures are required and Best Available Control Technology (BACT) will be no less stringent than RACT. To be in compliance, this facility must operate in accordance with the most current version of R307-325 through R307-341 or the applicable section(s), if renumbered.
12. The combined VOC emissions from tanks listed in this AO shall not exceed:

19.2 tons per rolling 12-month period

The VOC emitted to the atmosphere shall be calculated using EPA approved methodologies on a monthly basis. Compliance with the limitation shall be determined on a rolling 12-month total. Based on the first day of each month a new 12-month total shall be calculated using data from the previous 12 months. Records of VOC emissions shall be kept for all periods when the plant is in operation.

Records & Miscellaneous

13. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this Approval Order, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on the information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on the equipment authorized by this AO shall be recorded.
14. The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring.
15. The owner/operator shall comply with R307-107. General Requirements: Unavoidable Breakdowns.

The Executive Secretary shall be notified in writing if the company is sold or changes its name.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including R307.

A copy of the rules, regulations and/or attachments addressed in this AO may be obtained by contacting the Division of Air Quality. The Utah Administrative Code R307 rules used by DAQ, the Notice of Intent (NOI) guide, and other air quality documents and forms may also be obtained on the Internet at the following web site:

<http://www.airquality.utah.gov/>

The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an AO. An invoice will follow upon issuance of the final Approval Order.

Sincerely,

Ty Howard, Manager
New Source Review Section